

FIG. 1A

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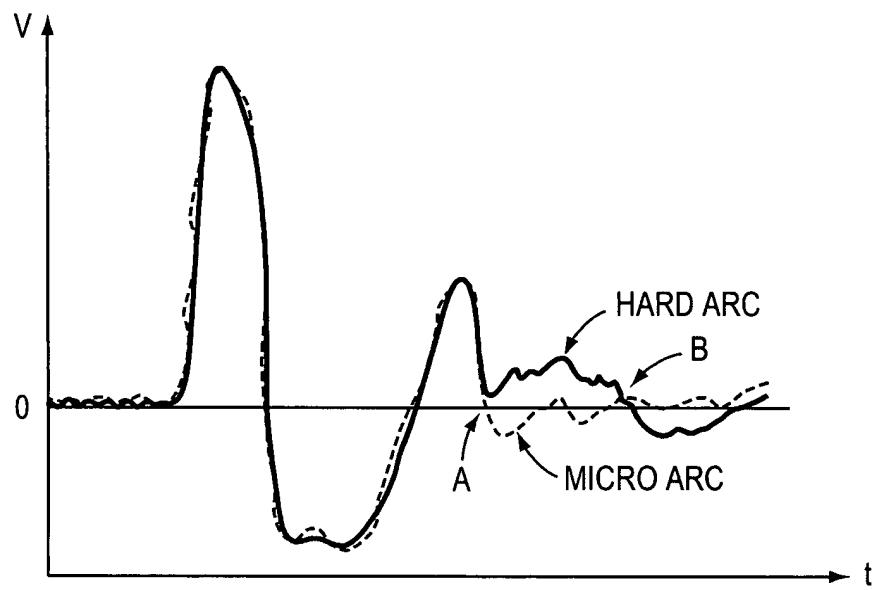


FIG. 1B

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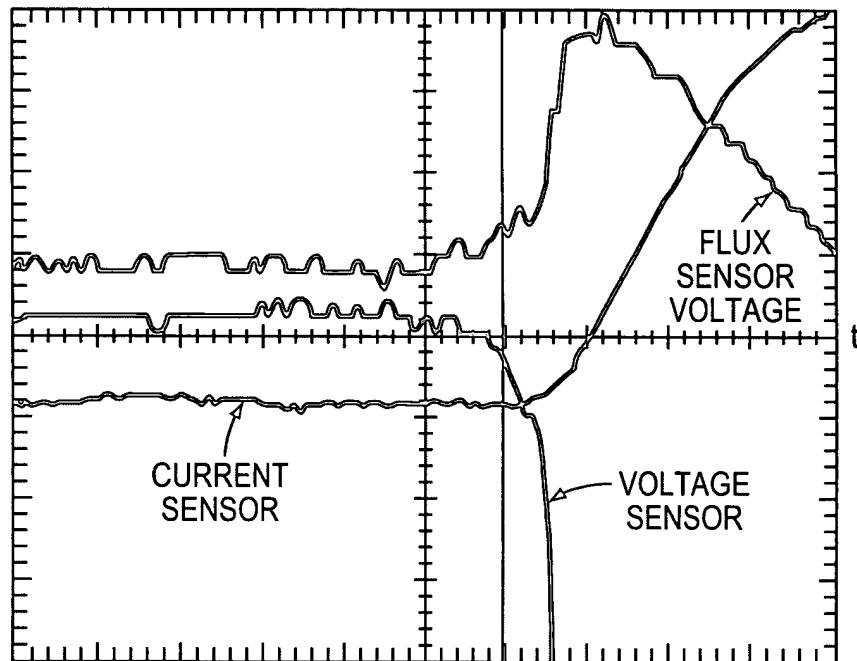


FIG. 1C

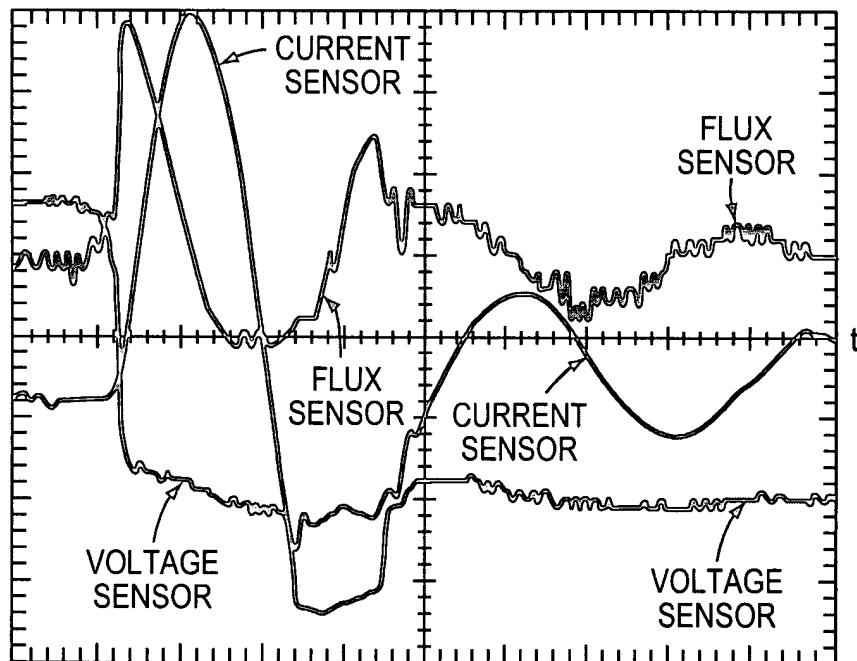


FIG. 1D

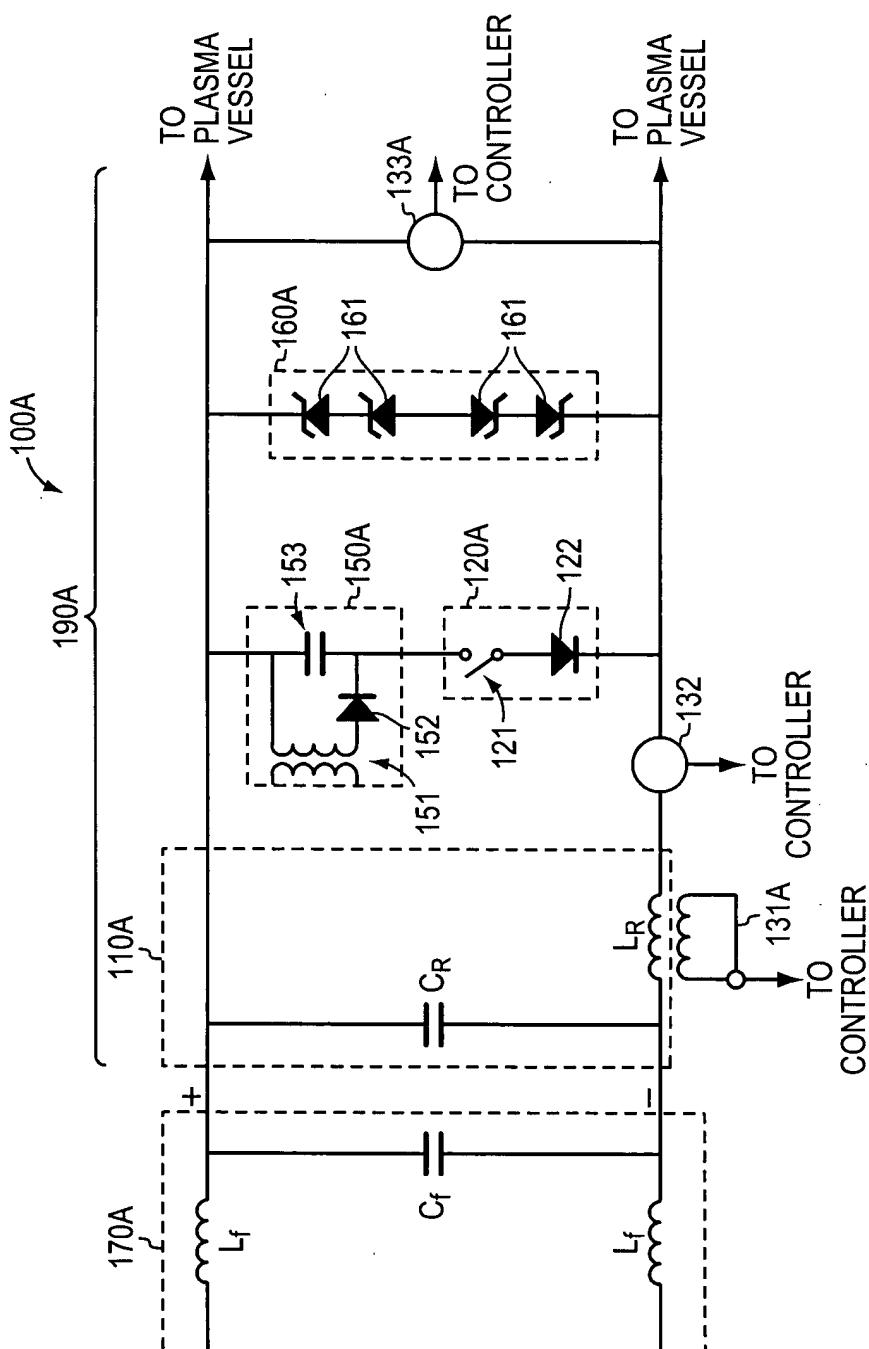


FIG. 2

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300

STEP 310

PROVIDING A RESONANT CIRCUIT IN ELECTRICAL  
COMMUNICATION WITH AN OUTPUT OF A POWER SUPPLY  
AND AN INPUT OF A PLASMA VESSEL

STEP 320

DETECTING A CHANGE IN A SIGNAL THAT INDICATES  
A TRANSITION OF A STATE OF A PLASMA IN THE PLASMA VESSEL

STEP 330

SHUNTING THE RESONANT CIRCUIT  
AFTER THE CHANGE IS DETECTED  
TO PERMIT A RESONANCE OF THE RESONANT CIRCUIT

STEP 340

WAITING FOR A HALF CYCLE BEFORE AGAIN SHUNTING  
IF THE ARC DISCHARGE PLASMA PERSISTS

STEP 350

REPEATING SHUNTING AND WAITING  
UNTIL THE CHANGE IS NO LONGER DETECTED

STEP 360

DETECTING A CHANGE IN A SECOND SIGNAL  
THAT INDICATES THE TRANSITION OF THE STATE  
OF THE PLASMA OR REIGNITION OF THE PLASMA

STEP 370

REIGNITING THE PLASMA  
AFTER EXTINGUISHING THE UNDESIRED PLASMA STATE

FIG. 3

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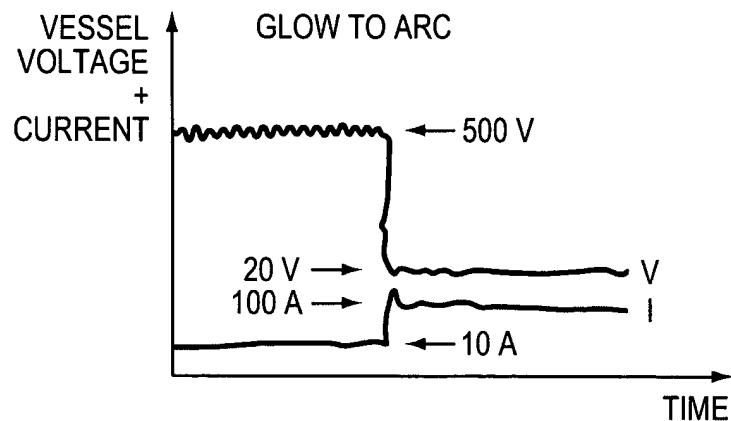


FIG. 4

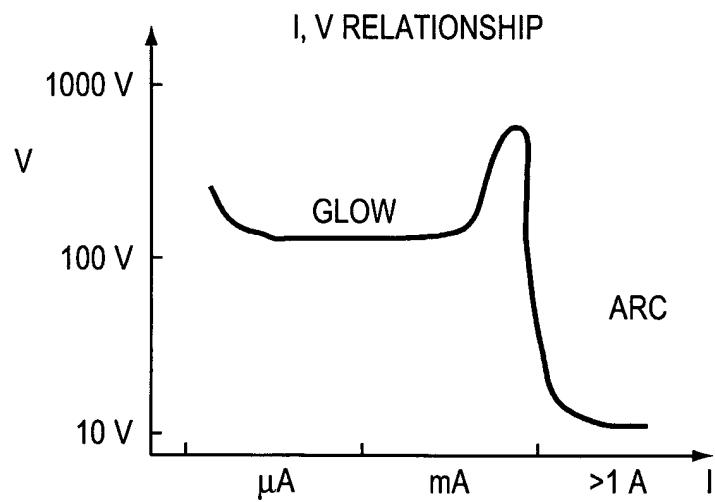


FIG. 5

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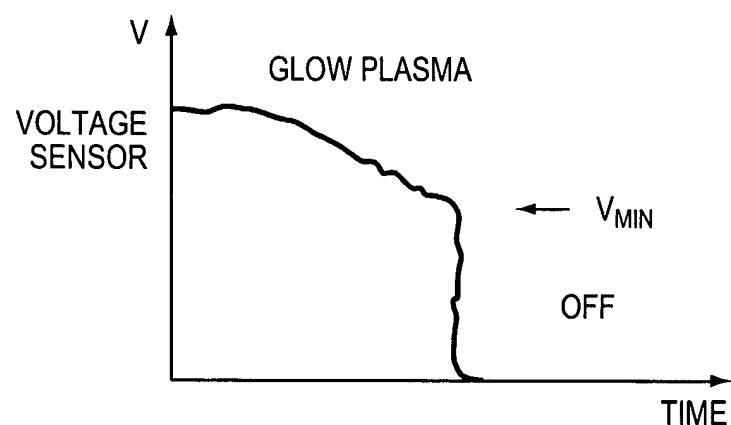


FIG. 6

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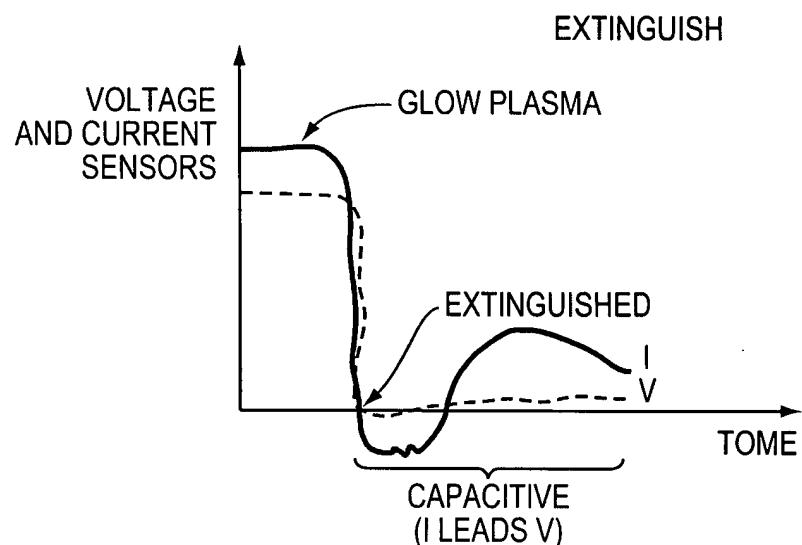


FIG. 7

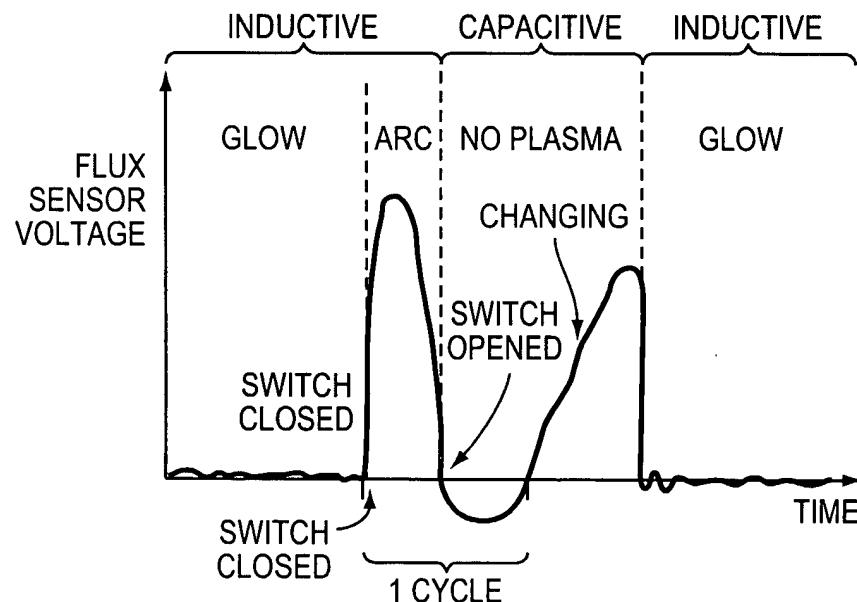


FIG. 8

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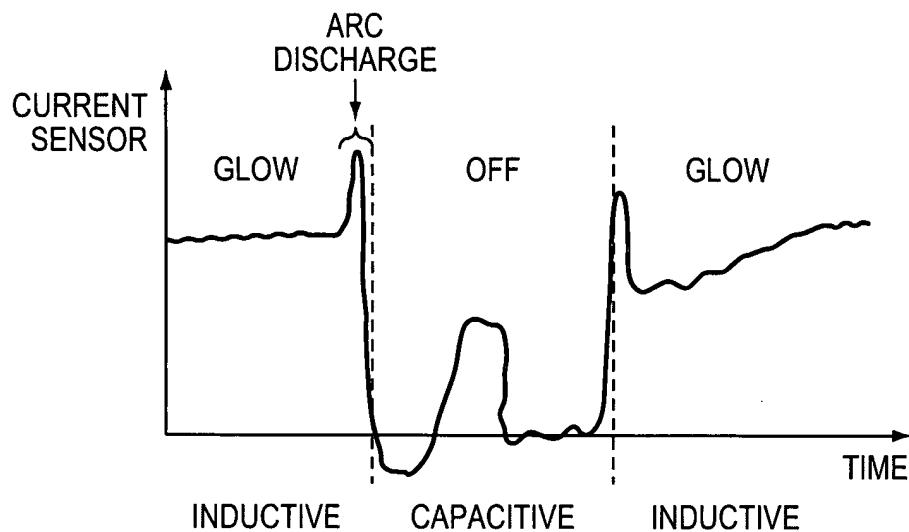


FIG. 9

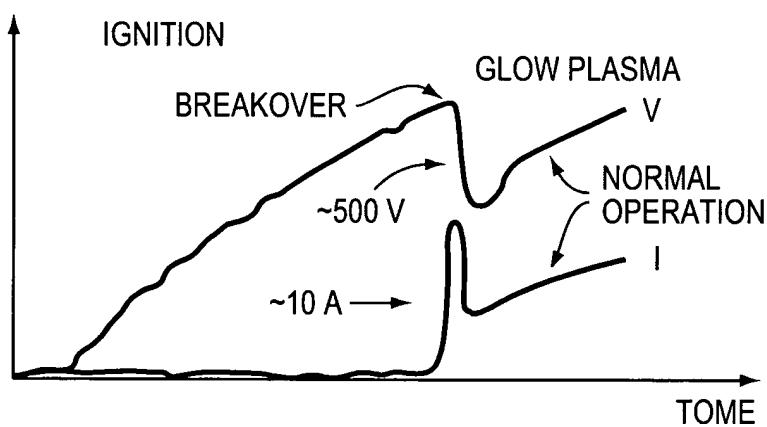


FIG. 11

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1000

STEP 1010

PROVIDING A RESONANT CIRCUIT IN ELECTRICAL  
COMMUNICATION WITH AN OUTPUT OF A POWER SUPPLY  
AND AN INPUT OF A PLASMA VESSEL,  
THE RESONANT CIRCUIT FOR STORING AND RELEASING ENERGY

STEP 1020

SHUNTING THE RESONANT CIRCUIT TO INCREASE  
AN ENERGY STORED IN THE RESONANT CIRCUIT

STEP 1030

REMOVING THE SHUNT TO DIRECT THE STORED ENERGY  
TO THE INPUT OF THE PLASMA VESSEL  
TO IGNITE THE PLASMA IN THE PLASMA VESSEL

STEP 1040

SENSING A SIGNAL ASSOCIATED WITH A STATE OF A PLASMA  
IN THE PLASMA VESSEL

STEP 1050

SHUNTING TO EXTINGUISH A PLASMA IN THE PLASMA VESSEL  
IF THE SIGNAL INDICATES AN UNDESIRED PLASMA STATE  
OF THE PLASMA IN THE PLASMA VESSEL

FIG. 10